

# CPT and Lorentz Symmetry

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EFFECTS IN THE DECAY OF FREE NEUTRONS

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## SEARCH FOR LORENTZ-INVARIANCE-VIOLATING EFFECTS IN THE DECAY OF FREE NEUTRONS

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Sidereal and daily modulations have been searched for in the decay of free polarized neutrons. A sample of about  $3 \times 10^8$  decay electrons distributed over a three month long data taking period were analyzed. Independent upper limits could be deduced for the coupling of the neutron spin and the electron momentum to an external field postulated as an exotic admixture to the weak interaction dominating in neutron decay.

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